Air Education and Training Command



Education & Training
Technology Application
(ETTAP) Program

AETC/A5TT 15 May 07

Larry Clemons

including suggestions for reducing	completing and reviewing the collect this burden, to Washington Headqu uld be aware that notwithstanding ar DMB control number.	arters Services, Directorate for Infor	mation Operations and Reports	, 1215 Jefferson Davis	Highway, Suite 1204, Arlington	
1. REPORT DATE 15 MAY 2007	2. REPORT TYPE			3. DATES COVERED 00-00-2007 to 00-00-2007		
4. TITLE AND SUBTITLE		5a. CONTRACT NUMBER				
Education & Train	Program	5b. GRANT NUMBER				
				5c. PROGRAM ELEMENT NUMBER		
6. AUTHOR(S)				5d. PROJECT NUMBER		
				5e. TASK NUMBER		
				5f. WORK UNIT NUMBER		
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Air Education and Training Command, AETC/A5TT, Randolph AFB, TX, 78150-4331				8. PERFORMING ORGANIZATION REPORT NUMBER		
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)		
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)		
12. DISTRIBUTION/AVAIL Approved for publ	LABILITY STATEMENT ic release; distributi	ion unlimited				
13. SUPPLEMENTARY NO 2007 Air Force Ad	otes vance Planning Brie	efing to Industry (A	PBI), May 15, 200	07, Wright-P	atterson AFB, OH	
14. ABSTRACT						
15. SUBJECT TERMS						
16. SECURITY CLASSIFIC	17. LIMITATION OF ABSTRACT	18. NUMBER	19a. NAME OF			
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified	Same as Report (SAR)	OF PAGES 19	RESPONSIBLE PERSON	

Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and

Report Documentation Page

Form Approved OMB No. 0704-0188



Overview



- Education Training Technology Application Program (ETTAP) Summary
- Examples of current projects
- Three new opportunities



ETTAP Summary

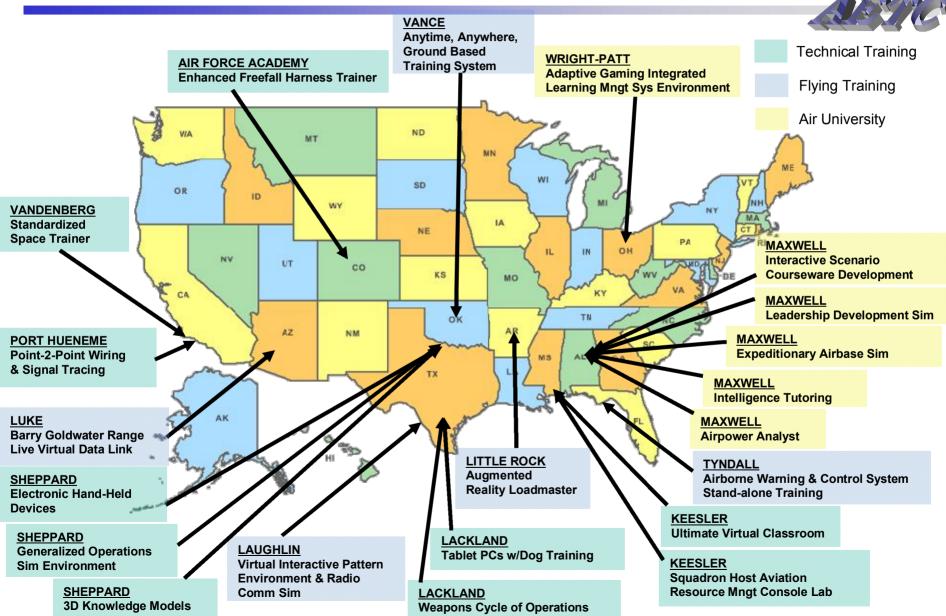


- A proof-of-concept
- Linked to an AETC education or training requirement
- Of acceptable risk (financial, developmental, implementation, time, availability, benefit vs cost)
- Measurable
- Completed within approximately 18 months
- Of potential use across AETC
- Cost ≈ \$200K \$700K
- Current Projects
 - 21 projects totaling over \$4.5M across 10 AETC bases
- FY07
 - Funding certification received 24 Apr 07



Current Projects







BMGR Data Link Integration



- Description: AFRL developed software to facilitate live, virtual, constructive Link-16 integrated training on Barry Goldwater Range
- Customer: 56 FW (Luke AFB AZ)
- Vendor: AFRL/HEA (Mesa)
- Benefits: Significantly enhance AETC training across the Distributed Mission Operations battlespace



Expeditionary Airbase Simulator





- Description: A multi-player, 3D, real time strategy, city building game. The simulation of the build-up and sustainment of an expeditionary airbase that will allow students to apply leadership and followership skills
- Customer: Air University Maxwell AFB
- Vendor: KMS Technologies
- Benefits: Increase comprehension of complex combat theater operations



Augmented Reality Training for C-130 Loadmaster



- Description: Head-mounted see through goggles that allows loadmasters to see the real cargo environment with virtual pallets and emergency situations overlaid
- Customer: C-130 Aircrew Training System (ATS)
 Little Rock AFB AR
- Vendor: Pathfinder Sys Inc
- Benefits: Fills training gap left by loss of loadmaster training flights



VIPERS



- Description: Virtual Interactive Pattern Environment and Radiocomms Simulator (VIPERS). PC-based interactive training with voice recognition for situational awareness and radio communications in primary pilot training traffic patterns. VIPERS includes simulation, intelligent entities, assessment of voice communications, and debrief technologies
- Customer: 84 Flying Training Squadron, Laughlin AFB
- Vendor: AFRL contract to CHI Systems
- Benefits: Replaces "carpet pattern" Potential to save one flight sortie for most SUPT students



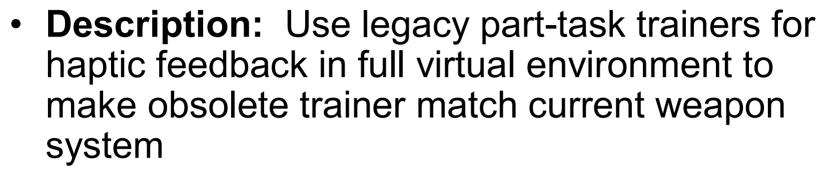
AWACS Voice Recognition



- Description: Program to test intelligent voice recognition capability for AWACS training scenarios
- Customer: 325th ACS, Tyndall AFB FL
- Vendor: Southwest Research Institute
- Benefits: Save man hours with elimination of surrogate instructor pilots



Generalized Operations Simulation Environment (GOSE)



Customer: HQ AETC

Vendor: Southwest Research Institute

 Benefits: Virtually display current weapon system configuration as an interactive overlay on legacy part task trainers to achieve currency through software changes instead of hardware modifications



Intelligent Tutoring System



- Description: Use of student adaptive learning & instructional gaming strategies to assess & enhance Officer Trainees' basic writing skills
- Customer: AF Officer Accession and Training School, Maxwell AFB
- Vendor: MultiMax
- Benefits: Upgrade writing skill sets to be more suitable to military applications



Standardized Space Trainer



- Description: An off-the-shelf computer system coupled with state-of-the-art emulation software to provide a lowcost, standardized satellite operations trainer capable of simulating multiple satellite systems (GPS and DSCS) on a single computer
- Customer: 533 Training Squadron Vandenberg AFB
- Vendor: Sonalysts Inc. through AFRL SBIR contract
- Benefits: Develop and train multiple space platforms from a common courseware development application



Electronic Handheld Devices



- Description: Integration of PDAs and software to replace printed textbook references for use in Independent Duty Medical Technician course
- Customer: Sheppard AFB
- Vendors: Hewlett-Packard, Epocrates Inc., Lippincott, Williams & Wilkins, and Skyscape
- Benefits: Increase analytical skills and competency. Reduce attrition rates and unsatisfactory scores on critical items in Clinical Practicum



ETTAP 2007



- Three new opportunities
 - USAF primary pilot training Ground Based Training System (GBTS) modification
 - Interactive Scenario Courseware Development
 - Use of Portable PCs with Dog Training



Anytime, Anywhere Ground Based Training System

- **Description:** Provide proof-of-concept data to AETC leadership in the transformation of Specialized Undergraduate Pilot Training (SUPT) Ground Based Training System (GBTS) from the current segregated and hard scheduled events to a multi-point access training system allowing anytime, anywhere training.
- Customer: Specialized Undergraduate Pilot Training (SUPT) T-6 Joint Primary Pilot Training / (P-V4A-J) at a base chosen by AETC/A3F
- Vendor: TBD
- Benefits: Just-in-time learning and use of learning law of recency
- Status:
 - Published RFI in FedBizOps Apr 12



Interactive Scenario Courseware Development

- Description: Develop a common simulation-based platform that can be used to enhance or replace current paper-based leadership case studies at Air War College (AWC) and Air Force Officer Accession Training School (AFOATS). Replace the current video counseling training package to PC-based interactive simulation with reusable AVATAR (computergenerated images of humans) development software
- Customer: Air University Air War College and Air Force Officer Accession Training School (AFOATS)
- Vendor: TBD
- Benefits:
 - Use of AVATAR technology will present and evaluate mastery of objectives in a standardized way in a realistic environment
 - Support of distance learning for the operational Air Force
- Status:
 - RFI published in FedBizOps Apr 30



Use of Portable PCs w/Dog Trng





- **Description:** Portable computer electronic performance support system, includes CBTs, used in dog training environments (instructors-/students- handler/trainers; tracks canine students also), and also integrates with the current multi-service Working Dog Management System
- Customer: DoD Military Working Dog Center (341 TRS Lackland AFB TX)
- Vendor: TBD
- Benefits: Assessment of current technology in portable devices for use in field conditions during training.
 Replace paper based support material in the field.



Contact



LARRY CLEMONS, DAFC HQ AETC/A5TT 100 H Street East Suite 3 Randolph AFB, Texas 78150-4330

DSN: 487-3194

Commercial: (210) 652-3194 FAX: 2537

E-mail Address: Larry.Clemons@Randolph.af.mil



Develop America's Airmen Today ... for Tomorrow





Integrity - Service - Excellence